Unit 2 - Week 1

Assignment 1

The due date for submitting this assignment has passed. Any questions you have not submitted this assignment.

1. In a city, if you want to do a survey on how many dogs are vaccinated, then what kind of sampling method will you choose?
   - Simple random sampling
   - Systematic sampling
   - Stratified random sampling
   - Cluster sampling

   [Select one answer]

   [Acceptable Answers: Systematic sampling, Stratified random sampling, Cluster sampling]

2. In order to represent the correlation between following dataset in a line plot, which of the following operation can be used?
   - Arrays
   - Matrices
   - Sets
   - Range

   [Select one answer]

   [Acceptable Answers: Arrays, Matrices]

3. If the dataset $\{1, 1, 2, 2, 3, 3, 7, 7\}$ is represented as a box plot, the number 7 will occupy what percentage of the data?

   [Select one answer]

   [Acceptable Answers: 70%]

4. Calculate arithmetic mean (AM) of following dataset $\{25, 45, 65, 85, 97, 68, 65, 42, 22, 56, 25, 84, 39\}$

   [Select one answer]

   [Acceptable Answers: 62]

5. What is order of the dataset $\{1, 1, 2, 3, 4\}$

   [Select one answer]

   [Acceptable Answers: 4 and 1 (decreasing)]

6. To compare how two datasets in terms of which one is larger than the other, which value you will look for?
   - Mean
   - Median
   - Mode
   - Range

   [Select one answer]

   [Acceptable Answers: Median]

7. Which of following statement(s) are true for Normal distribution?

   [Select one answer]

   [Acceptable Answers: Mean, Median, Mode, Standard deviation]

8. How many times does the dataset $\{1, 1, 1, 2, 2, 2, 3, 3, 3, 4, 4\}$ have?

   [Select one answer]

   [Acceptable Answers: 1, 2, 3, 4, 5, 6]

9. Which of the following is not true for Central Limit Theorem?

   [Select one answer]

   [Acceptable Answers: Mean, Median, Mode, Standard deviation]

10. Calculate median for the dataset $\{1, 10, 20, 30, 50, 60, 50, 30, 10\}$

    [Acceptable Answers: 30]